


# Missouri River Spring Rise



Summary for the Spring Rise public  
meeting  
July 28, 2005

# Working groups

- Plenary Committee
  - Technical Working groups:
    - Pallid Sturgeon/Fish & Wildlife
    - Hydrology/ Water Quality
    - Socio-economic
    - Historical, Cultural and Burial Sites
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# Factors being considered

- 1<sup>st</sup> spring rise (March) - timing, magnitude, rates of rise and fall
- Inter-rise flows
- 2<sup>nd</sup> spring rise (May?) - timing, magnitude, rates of rise and fall
- Stop protocols and/or prorating of the spring rise during drought
- Stop protocols for the spring rise during high flow conditions

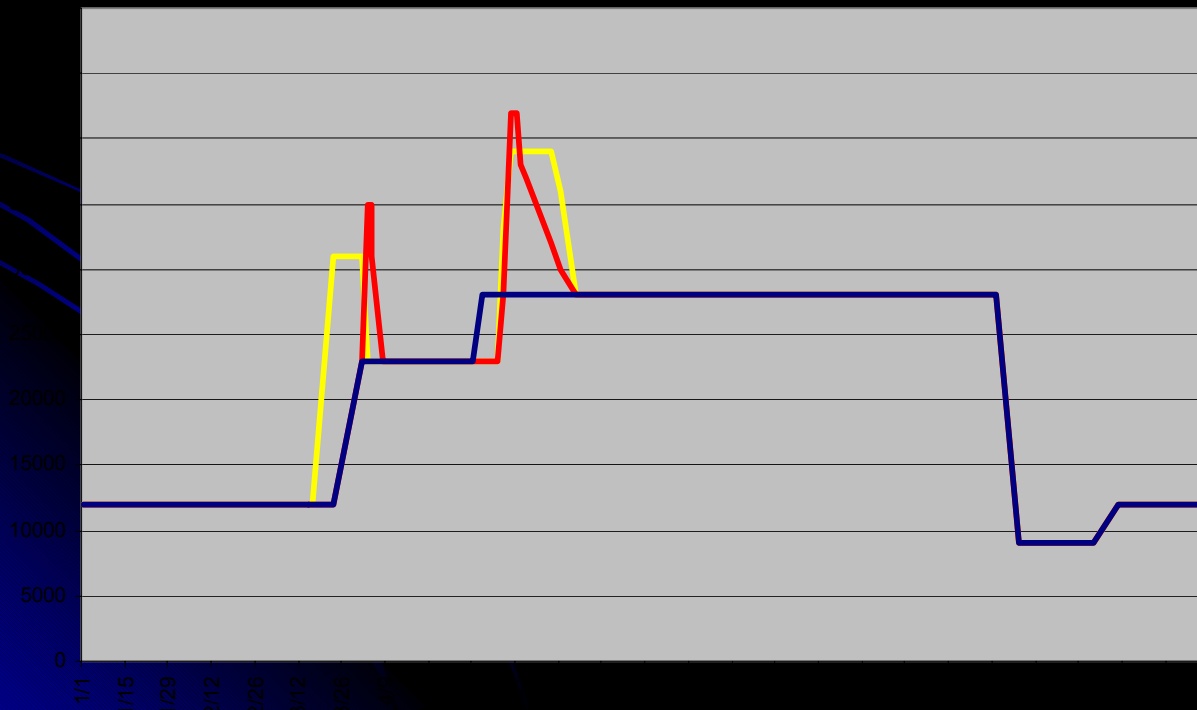
# Key Impacts of a spring rise

- During dry periods, a spring rise will accelerate reductions in reservoir levels and reductions in navigation service.
- A spring rise increases the risk of downstream flooding.

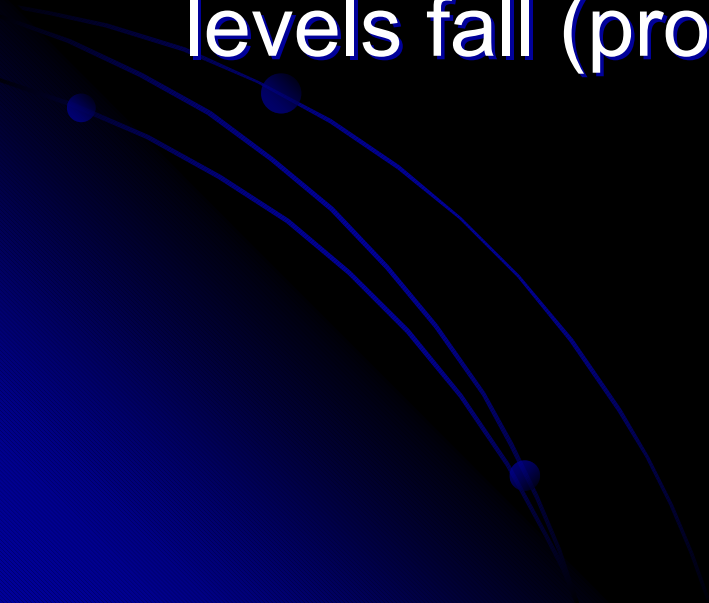
Key question: how to maximize the benefits to the pallid sturgeon and minimize these negative impacts?

# Spring rise – peak vs plateau

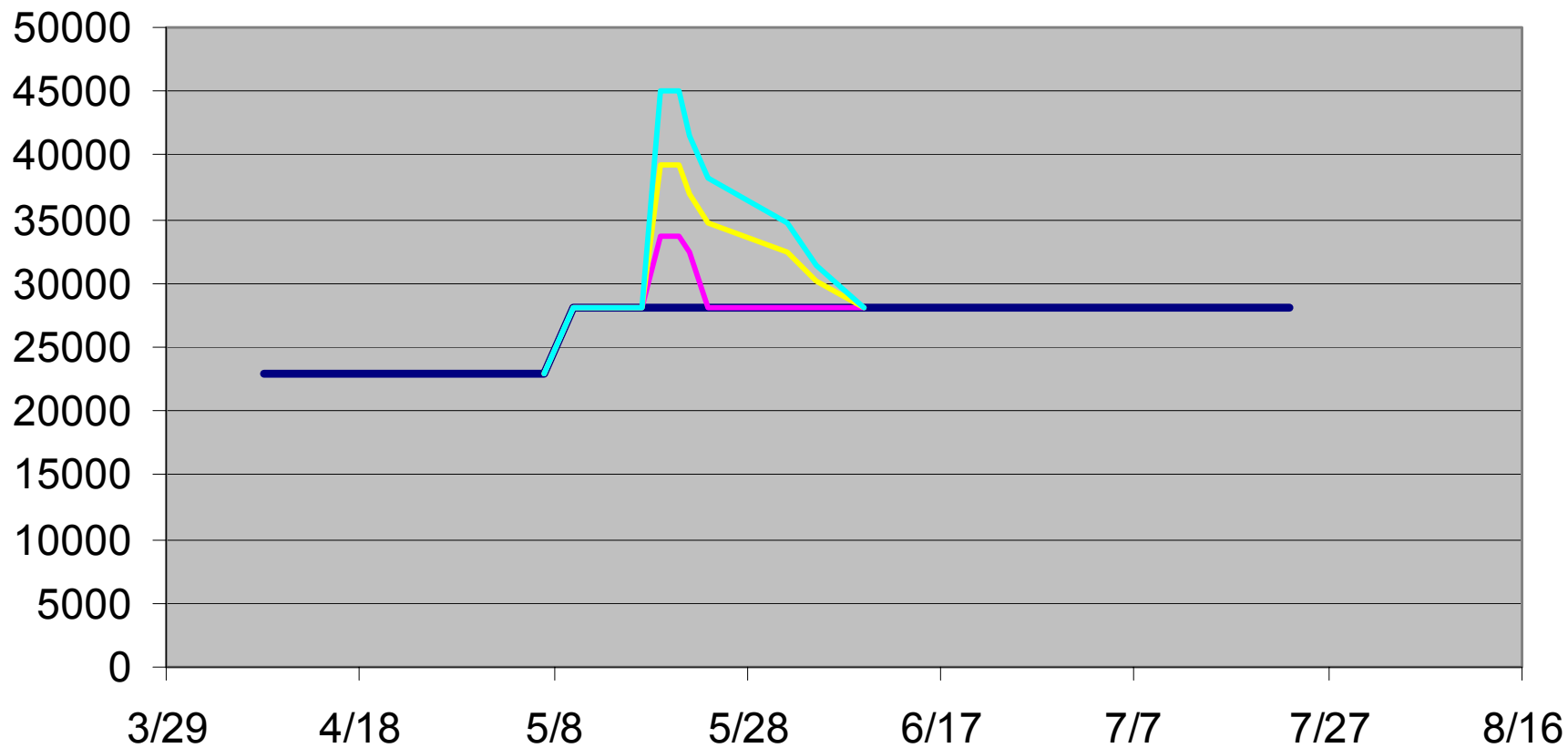
- The BiOp's spring rise includes a one week ramp up, two weeks at the peak, and a week ramp down.
- Through this process we have agreed a “peak” spring rise is preferable to the BiOp's “plateau” spring rise. This saves water during droughts and reduces risk to downstream flooding.



# Stop protocols and/or prorating the spring rise

- Discussing stopping the spring rise when the system storage is above 58.5 MAF.
  - Discussing the concept of reducing the magnitude of the spring rise as reservoir levels fall (prorating) and precludes.
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## Prorating a spring rise



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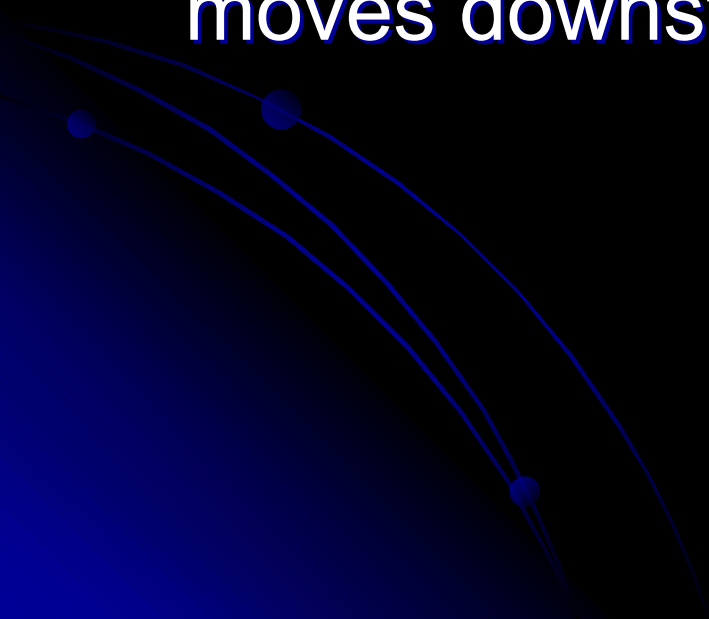
— 46.7 MAF + 11.3 kcfs

— 38.8 MAF + 5.7 kcfs

— 54.5 MAF + 17 kcfs

# More factors being discussed

- Could providing the Corps flexibility in timing of a spring rise be used to reduce risks downstream?
- How would a spring rise attenuate as it moves downstream?





# Plan development

- There has been significant interaction between the working groups and between the working groups and the plenary.
  - Within this context, each of the working groups has developed one or two plans for consideration by the plenary group.
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